

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	34	"4407320"	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/05/05 18:33
S2	6	"4926230"	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/05/06 09:10
S3	429	(silicon same gallium).bsum. and 136/243-265.ccls.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/05/06 09:15
S4	2	(silicon same gallium nitride).bsum. and 136/243-265.ccls.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/05/06 09:15
S5	11	"6512172"	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/05/06 10:51
S6	0	"2002017656"	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/05/06 10:54
S7	2	"19927981" or "1176646"	EPO	ADJ	ON	2008/05/06 10:55
S8	2276	refractive with silicon oxide	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/05/06 13:03
S9	189	S8 and (solar or photovoltaic)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/05/06 13:03
S10	28	S9 and "600" nm	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/05/06 13:12
S11	0	S9 and 600nm	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/05/06 13:12

S12	142	S9 and wavelength	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/05/06 13:20
S13	214	refractive with silicon oxide with wavelength	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/05/06 13:21
S14	10	S13 and (solar or photovoltaic)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/05/06 13:21
S15	373	refractive with silicon oxide with wavelength	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/05/06 13:23
S16	19	S15 and (solar or photovoltaic)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/05/06 13:24
S17	455	index with silicon oxide with wavelength	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/05/06 14:31
S18	18	index with silicon oxide with "600"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/05/06 14:32
S19	20	index with silicon oxide with "600"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/05/06 14:49

S20	478	index with silicon \$5oxide with wavelength	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/05/06 14:49
S21	1487	low refractive index with silicon \$5oxide	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/05/06 15:32
S22	1	"10563009"	US-PGPUB	ADJ	ON	2009/04/14 15:18
S23	379	((low near1 refract \$5) with silicon oxide)	US-PGPUB	ADJ	ON	2009/04/14 15:29
S24	901	((low near1 refract \$5) with silicon oxide)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/14 15:30
S25	33	S24 and (crystalline with silicon)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/14 15:30
S26	14	S25 and (solar or photovoltaic)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/14 15:30
S27	102	(contact or electrode) same silicon oxide same (n? type with crystalline)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/14 15:36
S28	14	S26 and (solar or photovoltaic)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/14 15:36

S29	10	S27 and (solar or photovoltaic)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/14 15:38
S30	1278	(contact or electrode) same silicon oxide same (n? type) same resistance	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/14 15:46
S31	29	S30 and (solar or photovoltaic)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/14 15:47
S32	1	(back near1 (electrode or contact) same (low near1 refract\$5) with silicon oxide)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/14 16:04
S33	1	(back near1 (electrode or contact) with (low near1 refract\$5) with silicon oxide)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/14 16:04
S34	1	((back near1 (electrode or contact)) with (low near1 refract\$5) with silicon oxide)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/14 16:04
S35	15	((back near1 (electrode or contact)) with (n? type) with silicon oxide)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/14 16:05
S36	90	oxygen with percent with silicon oxide	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/14 16:16

S37	71965	"21" and (solar or photovoltaic)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/14 16:16
S38	9	S36 and (solar or photovoltaic)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/14 16:17
S39	117	"` +."	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/14 16:27
S40	6407	(back or rear) (contact or electrode) same resistance	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/04/14 18:36
S41	19	(back or rear) (contact or electrode) same resistance same silicon oxide	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/04/14 18:36
S42	16	(contact or electrode) with (low near2 index) with silicon oxide	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/04/14 18:44
S43	3292	(counter) (contact or electrode) same resistance	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/04/14 18:47
S44	28	(counter) (contact or electrode) same resistance same (silicon oxide or sio2)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/04/14 18:47
S45	0	(back or rear) (contact or electrode) same resistance same silicon oxide	FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/04/14 18:48
S46	232705	solar or photovoltaic	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/14 18:54

S47	17	("3413157"   "4012235"   "4239810"   "4313768"   "4604791"   "4624045"   "4633031"   "4781766"   "4836861"   "4910153"   "5879977"   "6111191").PN. OR ("6210991").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/04/14 18:55
S48	19388	S46 and thin film	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/04/14 19:07
S49	13423	S48 and silicon	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/04/14 19:07
S50	3590	S49 and index	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/04/14 19:07
S51	1286	S50 and atomic	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/04/14 19:07
S52	1105	S51 and crystal\$4	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/04/14 19:08
S53	742	S51 and crystalline	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/04/14 19:08
S54	92	S53 and atomic with (oxygen or silicon oxide)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/04/14 19:08
S55	92	S53 and (atomic with (oxygen or silicon oxide))	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/04/14 19:08
S56	1	"6384319"	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/04/14 19:13
S57	1382	(interface or intermediate) (layer or film) and S49	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/04/14 19:23
S58	91	((interface or intermediate) (layer or film) with (silicon oxide or sio or sio2)) and S49	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/04/14 19:23
S59	0	((interface or intermediate) (layer or film) with (silicon oxide or sio or sio2)) and S49	FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/04/14 19:38

S60	0	((interface or intermediate) (layer or film) and (silicon oxide or sio or sio2)) and S49	FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/04/14 19:39
S61	0	((interface or intermediate) and (silicon oxide or sio or sio2)) and S49	FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/04/14 19:39
S62	7643	((interface or intermediate) and (silicon oxide or sio or sio2))	FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/04/14 19:39
S63	110	((interface or intermediate) and (silicon oxide or sio or sio2)) and (solar or photovoltaic)	FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/04/14 19:39
S64	58	((interface or intermediate or buffer) (layer or film) and (silicon oxide or sio or sio2)) and (solar or photovoltaic)	FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/04/14 19:40
S65	3	isotype with (silicon oxide or sio or sio2)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/04/15 12:34
S66	26467	isotype	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/04/15 13:55
S67	48	S66 and (solar or photovoltaic) (cell or module or panel)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/04/15 13:55
S68	48	S66 and (solar or photovoltaic) (cell or module or panel or array)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/04/15 13:55
S69	44	S68 and silicon	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/04/15 13:55
S70	7	S68 and (silicon with thin)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/04/15 13:55

S71	40417	electrode with (silicon oxide or sio or sio2)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/04/15 14:11
S72	95	(back or rear) near electrode with (silicon oxide or sio or sio2)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/04/15 14:11
S73	27	(back or rear) near electrode with (silicon oxide or sio or sio2) with type	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/04/15 14:11
S74	13	("4272641"   "4338482"   "4342044"   "4451838"   "4476346"   "4500744"   "4531015"   "4705912"   "4718947").PN. OR ("4781765").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/04/15 14:28
S75	13	("4064521"   "4385199"   "4460670"   "4581476"   "4626885"   "4781765").PN. OR ("4843451").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/04/15 14:37
S76	8707	silicon and (crystallin \$3 with (resistivity or resist?nce))	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/11/02 14:12
S77	103132	(solar or photovoltaic)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/11/02 14:13
S78	708	S76 and S77	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/11/02 14:13
S79	488	S78 and thin film	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/11/02 14:13
S80	306	S79 and oxygen	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/11/02 14:13
S81	113	S80 and (silicon with oxygen)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/11/02 14:13
S82	184	S80 and (silicon with oxide)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/11/02 14:14
S83	8	S80 and ((silicon with (oxygen or oxide)) with (back or rear) (contact or electrode))	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/11/02 14:14



S84	0	((crystal44 with silicon with (oxygen or oxide)) with (back or rear) (contact or electrode))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/02 14:18
S85	23	((crystal\$4 with silicon with (oxygen or oxide)) with (back or rear) (contact or electrode))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/02 14:18
S86	2425	crystalline with silicon with oxygen	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/11/02 14:31
S87	191	S86 and (solar or photovoltaic)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/11/02 14:31
S88	49	crystalline with silicon with oxygen with doped	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/11/02 16:16
S89	9	S88 and (solar or photovoltaic)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/11/02 16:16
S90	31	refractive index with crystalline with silicon and (solar or photovoltaic)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/11/02 16:39
S91	18	masashi near1 yoshimi.in. and (solar or photovoltaic)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/11/02 16:43
S92	16	S91 and crystalline	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/11/02 16:44
S93	39488	second with n-type	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/11/02 19:09
S94	868	S93 and (solar or photovoltaic) and thin film and crystalline	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/11/02 19:09
S95	531	S93 and (solar or photovoltaic) and thin film and crystalline and oxygen	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/11/02 19:09
S96	4419	second adj1 n-type	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/11/02 19:09
S97	60	S96 and (solar or photovoltaic) and thin film and crystalline and oxygen	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/11/02 19:10

S98	2	"10537733"	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/11/03 00:18
S99	35	"4781765" "4721535" "4718947" "5055141"	US-PGPUB; USPAT; USOCR	OR	ON	2010/08/19 00:51

**EAST Search History (Interference)**

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2	(silicon and amorphous and (solar or photovoltaic) and index and oxygen and (percent or atomic) and (thickness or nm or angstrom)).clm.	US-PGPUB; USPAT; UPAD	ADJ	ON	2010/08/20 14:32
L2	13	(silicon and amorphous and (solar or photovoltaic) and oxygen and (percent or atomic) and (thickness or nm or angstrom)).clm.	US-PGPUB; USPAT; UPAD	ADJ	ON	2010/08/20 14:33

**8/ 20/ 2010 2:36:01 PM**

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